

Utah Water Assessment & Conditions Monitoring (Drought Webinar)

The meeting will begin shortly













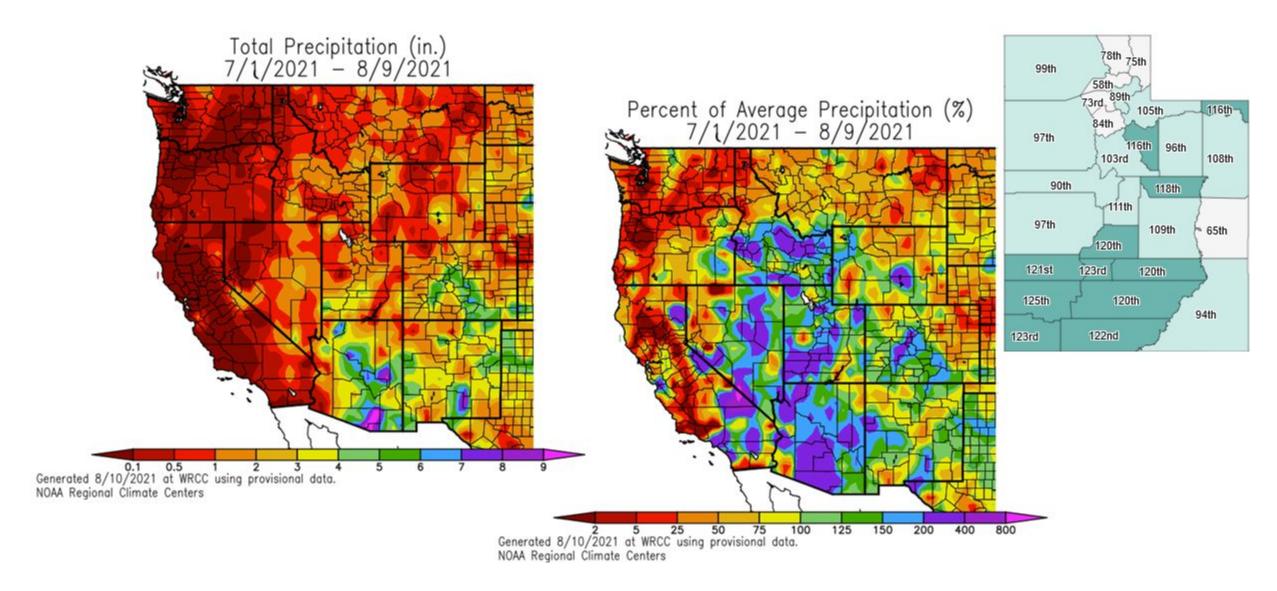




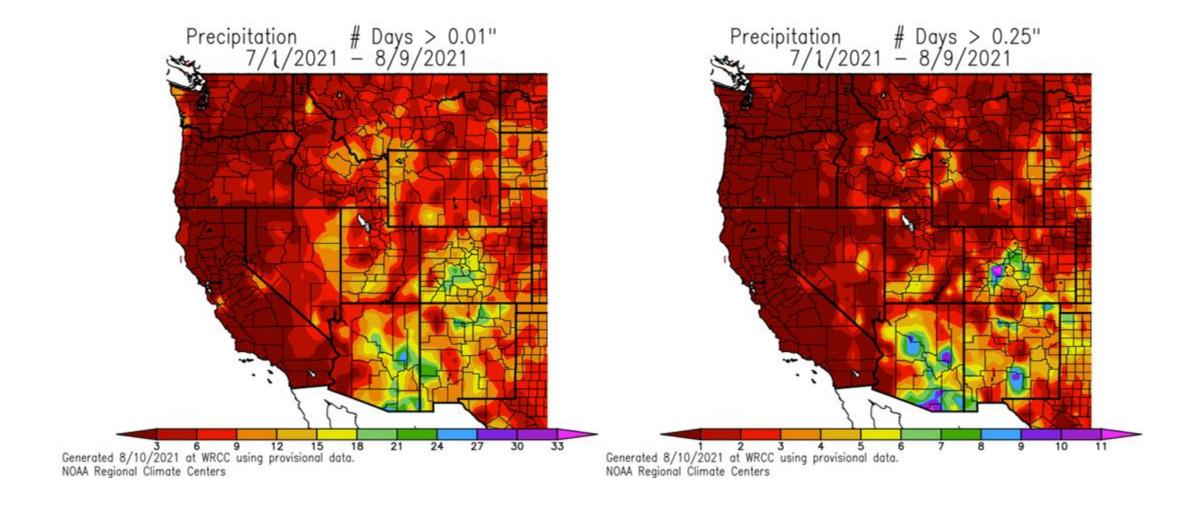
Utah Water Assessment & Conditions Monitoring Webinar

August 10, 2021

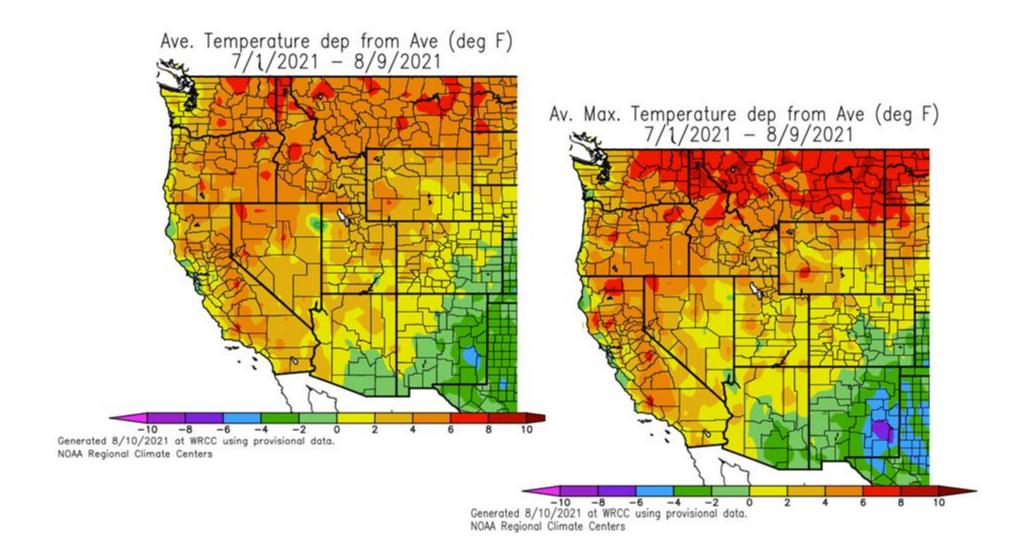
Precipitation History Since July 1



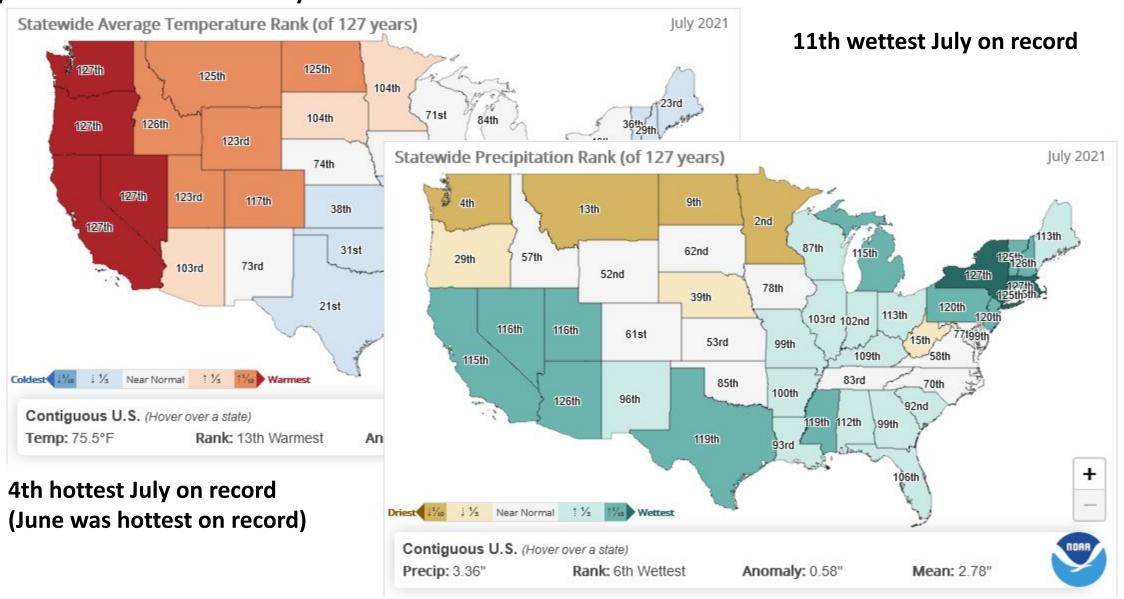
Precipitation Frequency and Intensity



Temperature history since July 1



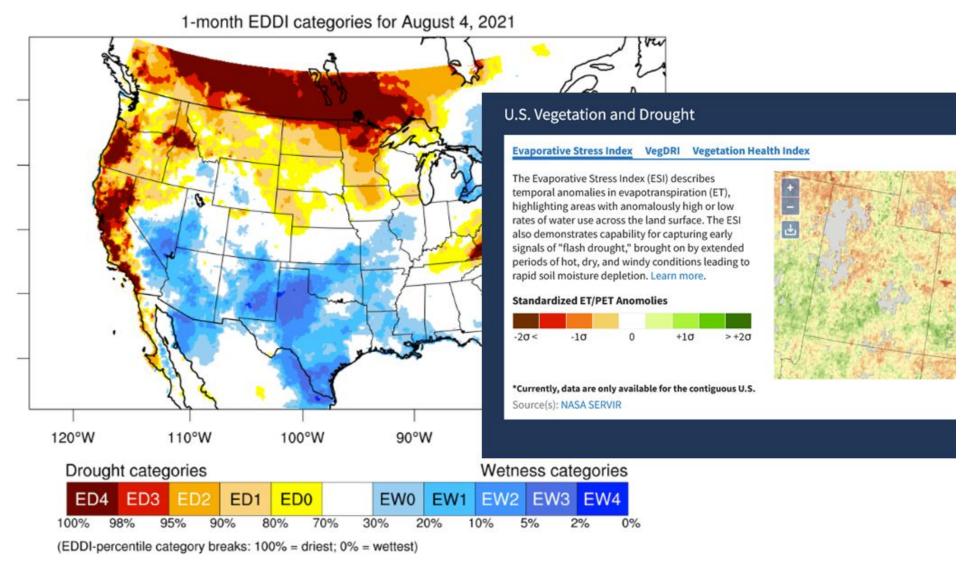
July's Climate Summary



Evaporative Demand Drought Index & Evaporative Stress Index

Evaporative demand has been normal to below normal for this time of year and is not stressing drought conditions.

Recent Et anomalies suggest northwest Utah has featured greater evaporative stress.



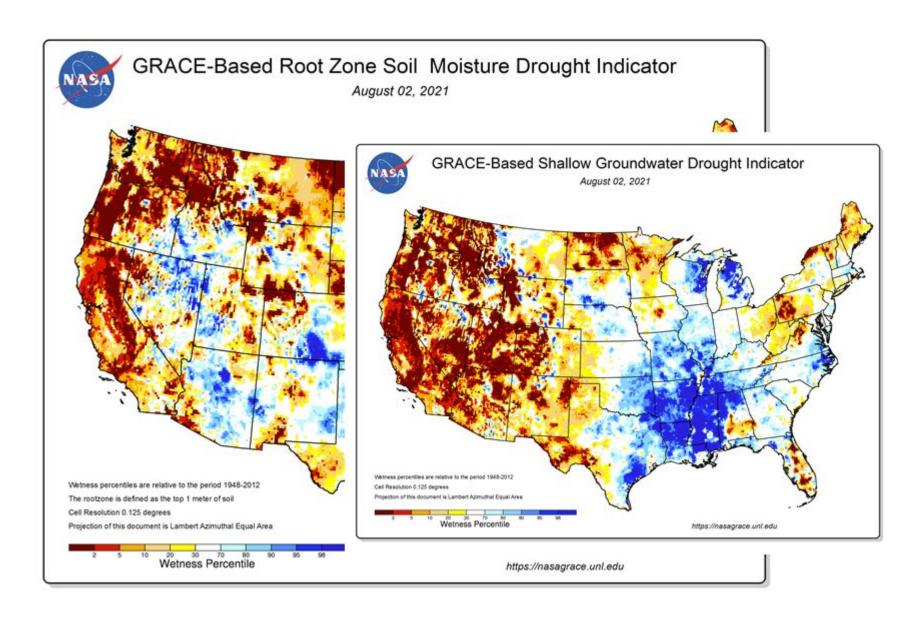
Agency - Utah Climate Center Presenter - Jon Meyer

Generated by NOAA/ESRL/Physical Sciences Laboratory

GRACE Satellite Soil Moisture Observations

Root zone soil moisture (top 1-meter) has improved dramatically.

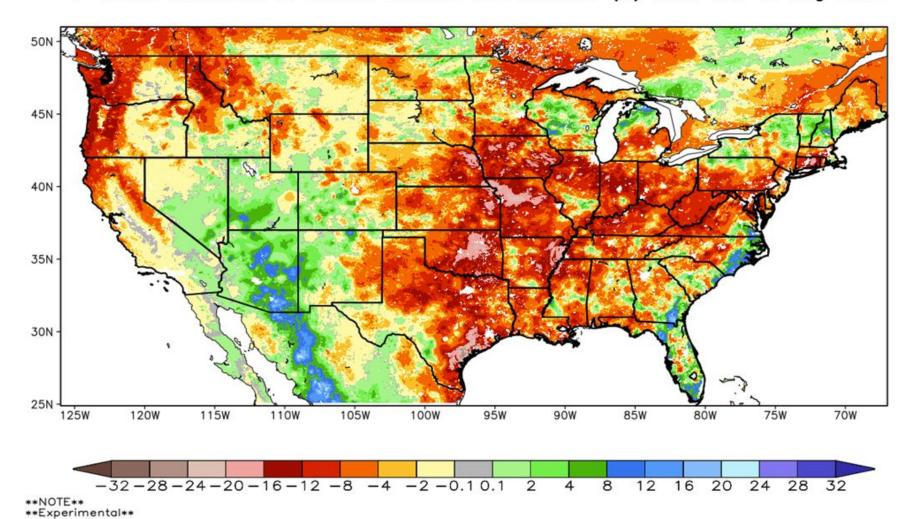
Groundwater remains heavily depleted.



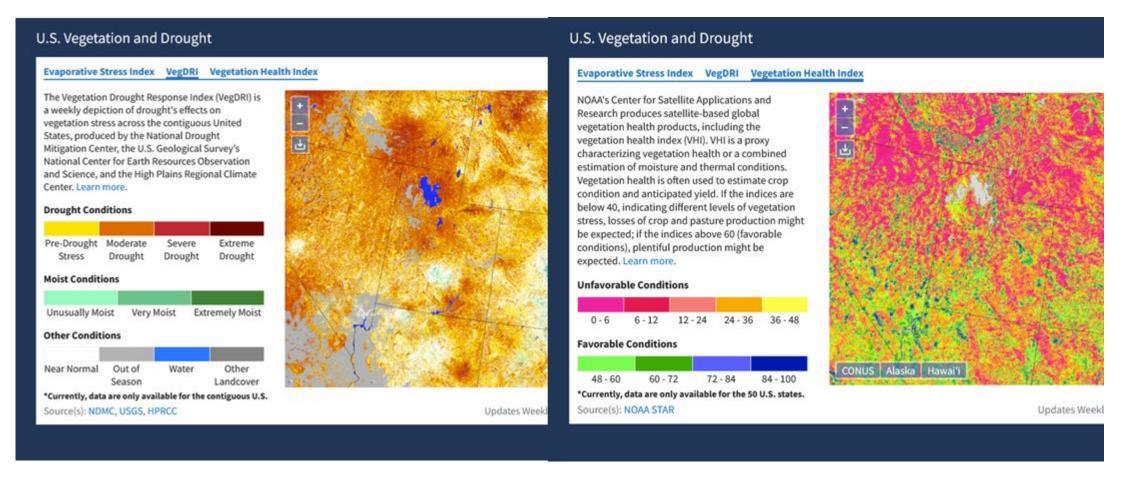
1-month changes to total soil moisture content

1-Month Difference in Column Relative Soil Moisture (%) valid 12z 10 Aug 2021

The monsoon season has clearly improved soil moisture across much of the state.



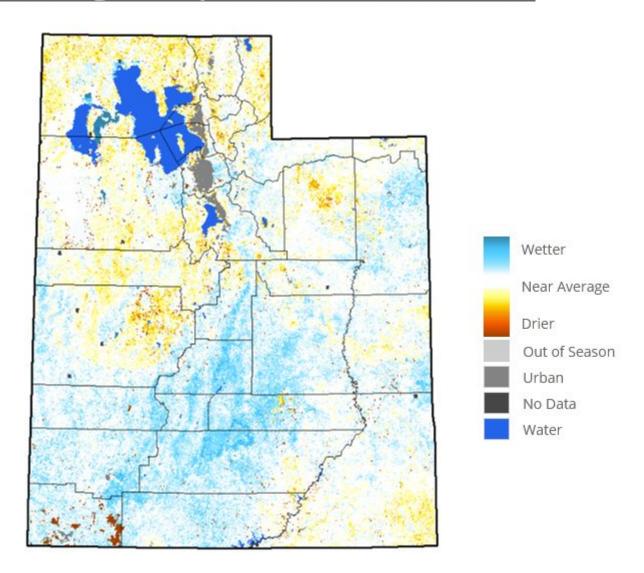
Vegetative Drought metrics



Vegetation health metrics have improved for the wetter south western region but remains categorized as heavily unfavorable for healthy vegetation for the majority of the state

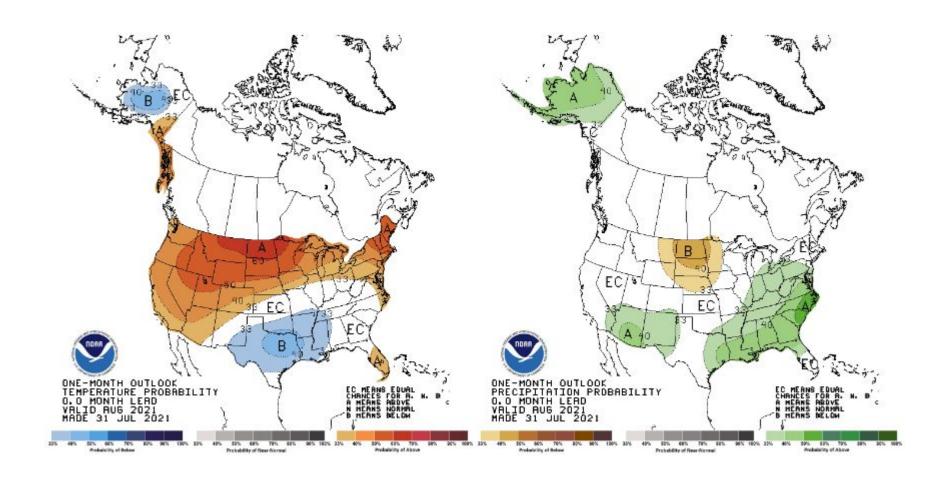
Quick Drought Response Index (QuickDRI)

Little concern for new intensification of drought over short term, but northern Utah remains under a watchful eye.

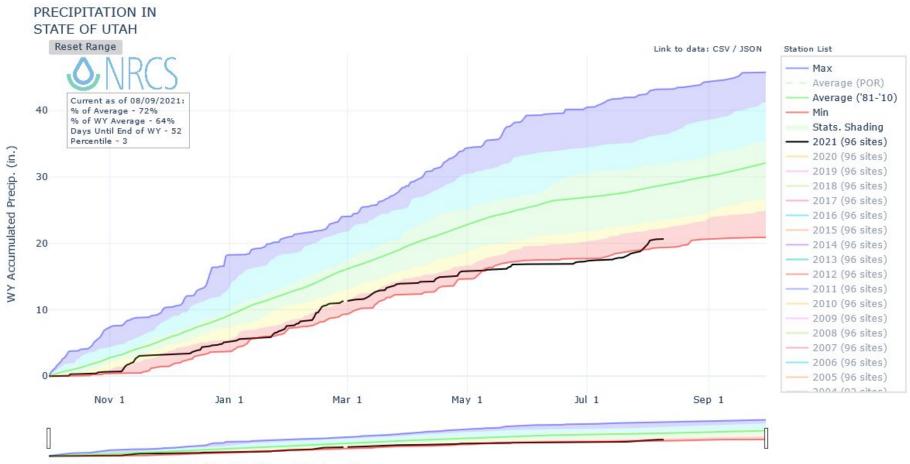


August Seasonal Outlook

CPC has not updated the Aug-Oct outlook, since mid July.

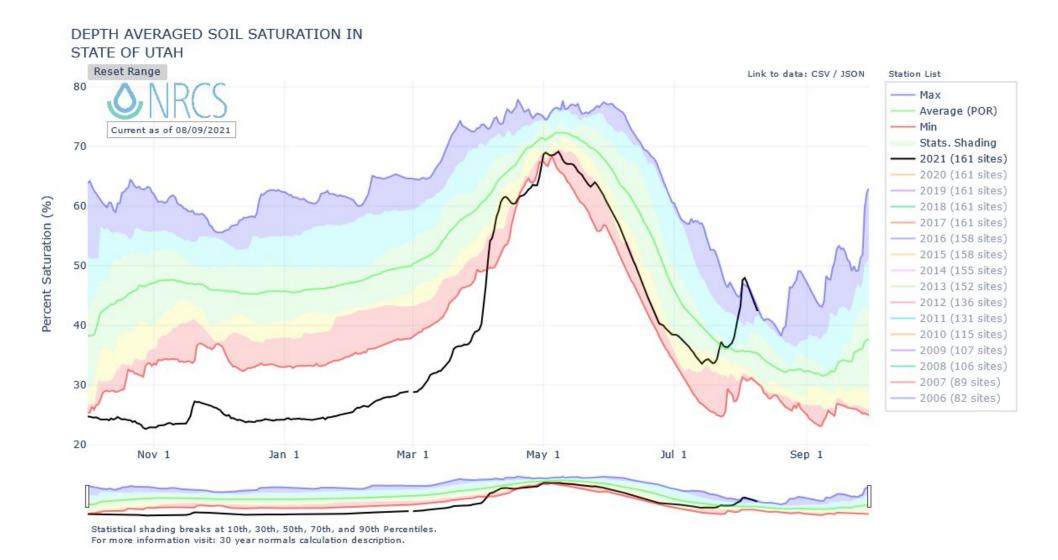


Precipitation



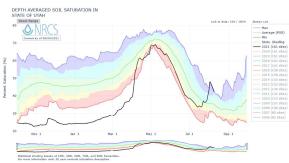
Statistical shading breaks at 10th, 30th, 50th, 70th, and 90th Percentiles. For more information visit: 30 year normals calculation description.

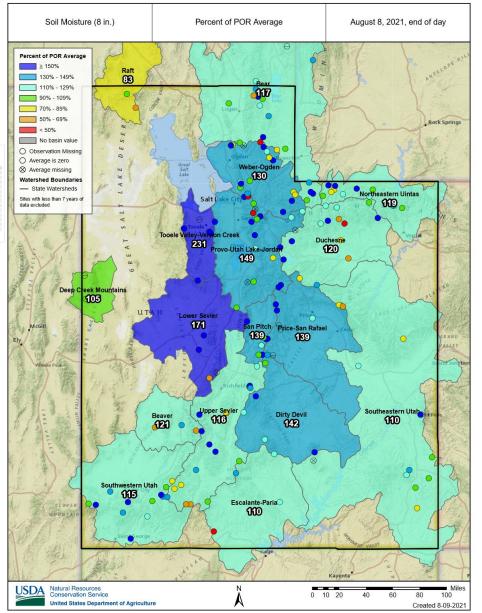
Soil Moisture

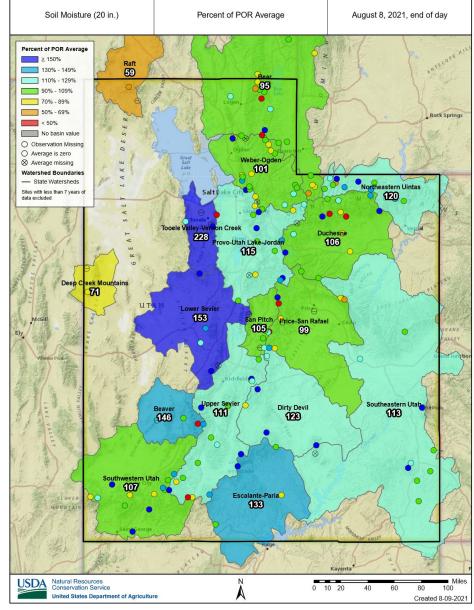


Agency - NRCS Snow Survey Presenter - Jordan Clayton

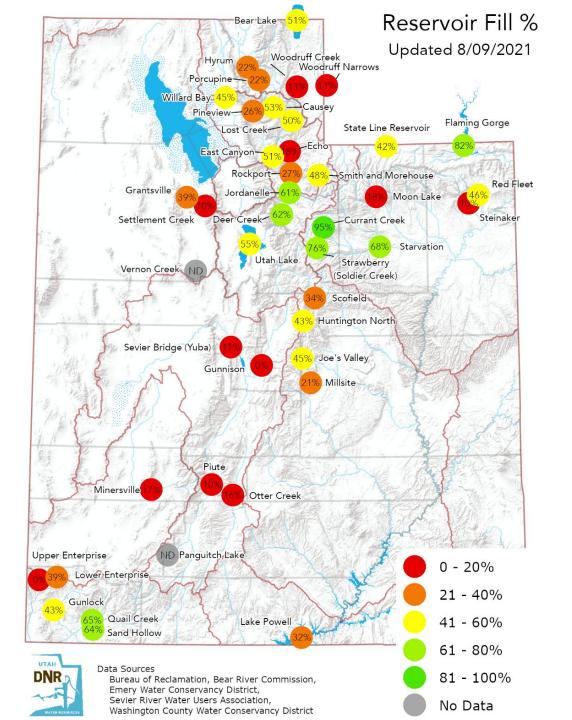
Soil Moisture







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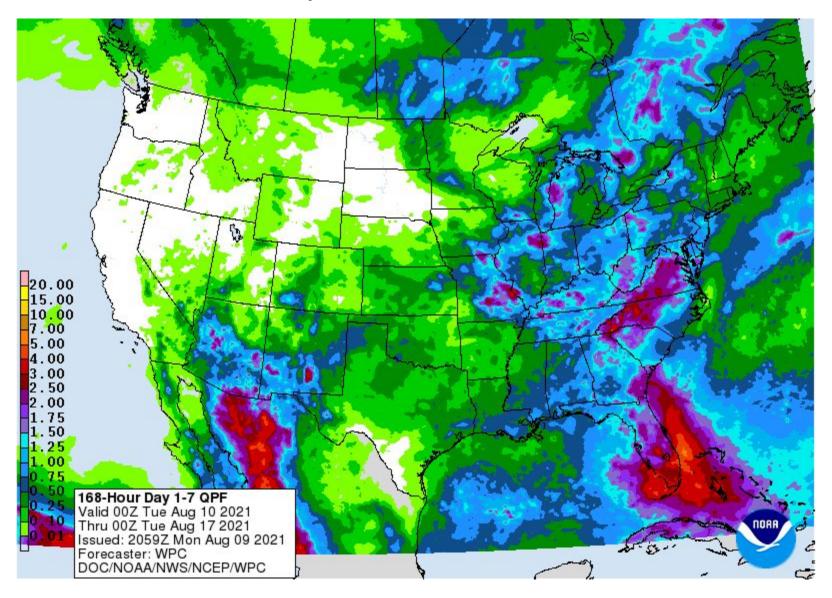


Agency - Division of Water Resources w/NRCS data Presenter - Laura Haskell

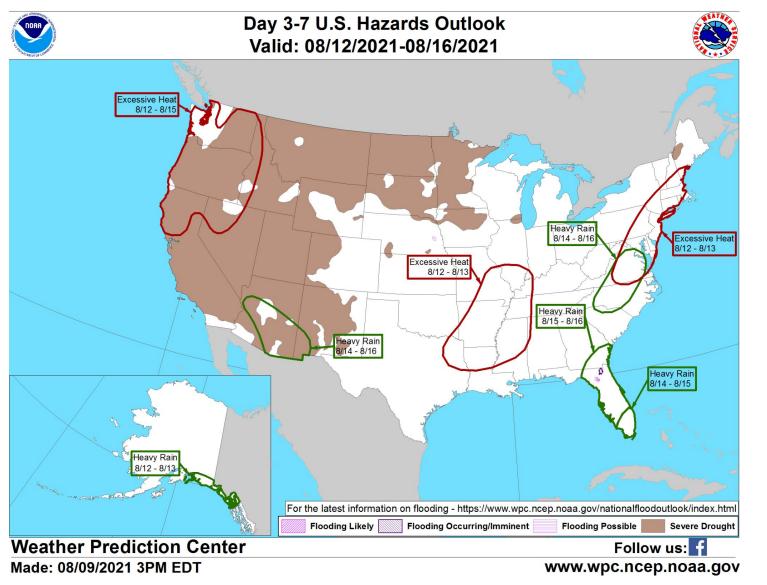


Weather Forecast Office Utah Day 1-7 Outlook



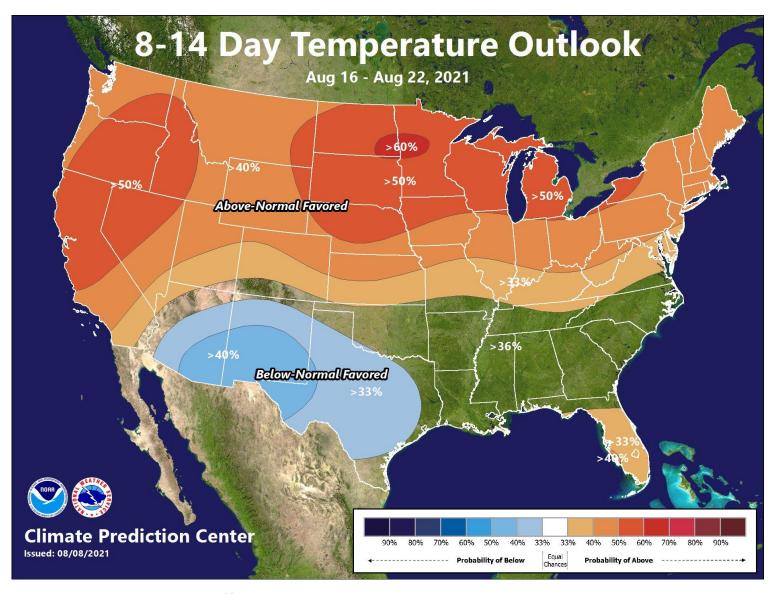


Weather Prediction Center U.S. Day 3-7 Hazards Outlook



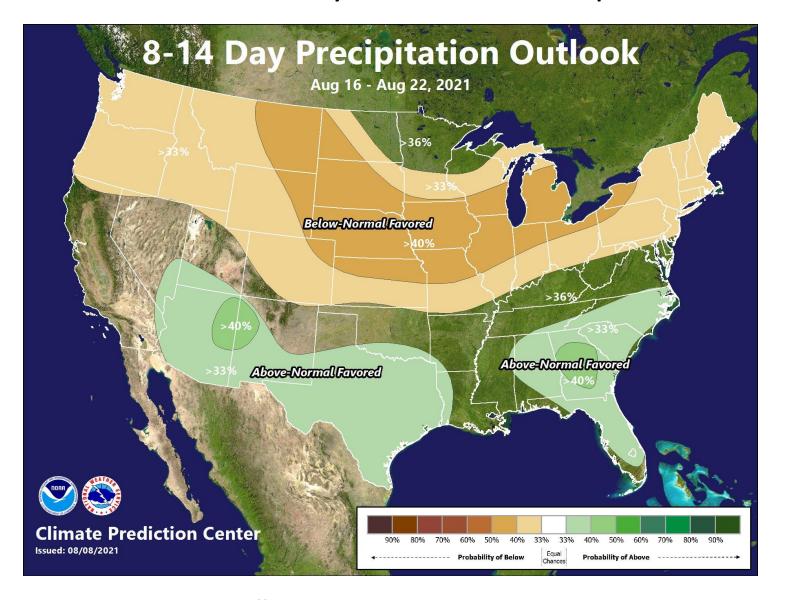


Climate Prediction Center 8 to 14 Day Outlooks - Temperature



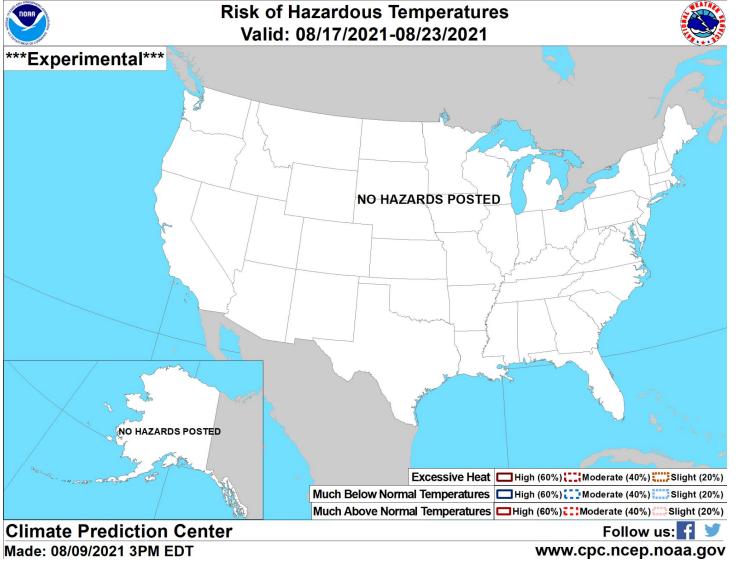


Climate Prediction Center 8 to 14 Day Outlooks - Precipitation





Climate Prediction Center U.S. Week-2 Hazards Outlook



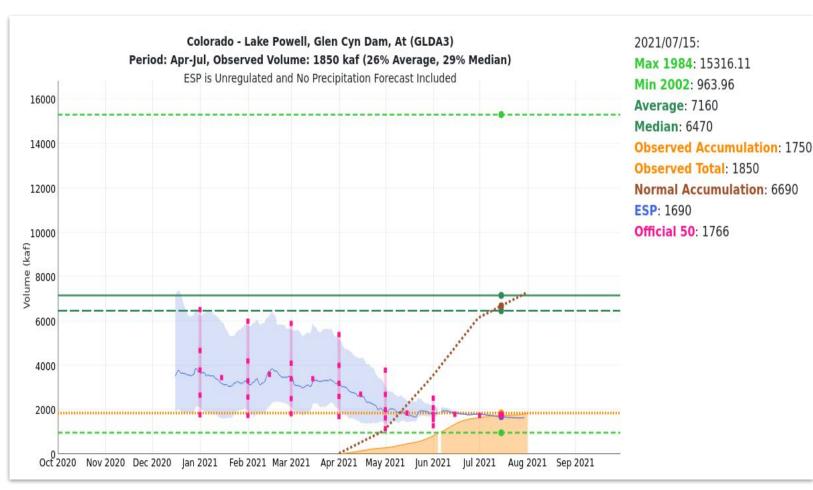


Utah Water Supply Forecasts / Observed 2021 Volumes

Observed Seasonal Volumes as a percent of average at:

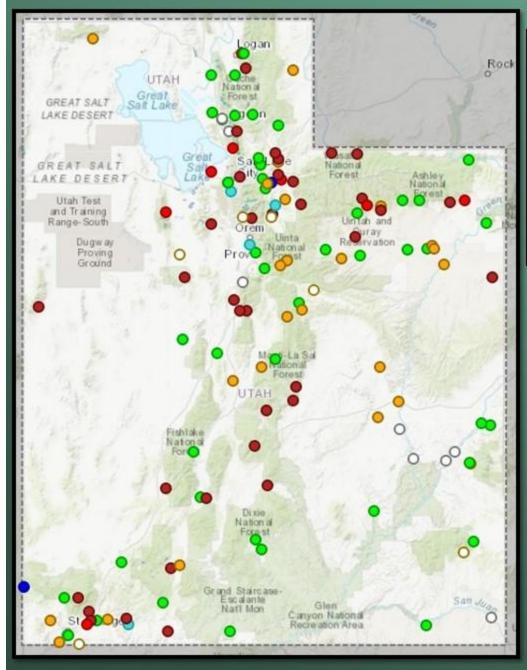


Weber Gateway 18% **Bear Woodruff** 21% Six Creeks Parley's 17% Utah Lake 35% Sevier Piute reg 45% Green River UT 28% San Juan Bluff 45% Lake Powell 26%



Agency - CBRFC
Presenter - Brent Bernard

Current Streamflow Conditions

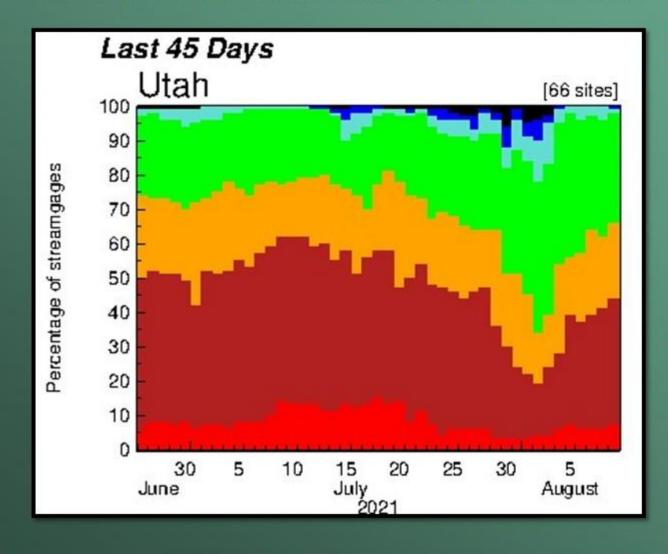


STATION COUNTS BY FLOW STATUS								
All-time low for this day-of-year	9	6.7%						
Much below normal for this day-of-year	35	25.9%						
Below normal for this day-of-year	25	18.5%						
Normal for this day-of-year	44	32.6%						
Above normal for this day-of-year	6	4.4%						
Much above normal for this day-of-year	2	1.5%						
All-time high for this day-of-year	0	0.0%						
Not ranked - insufficient record	14	10.4%						



*Sites must have at least 20 years of streamflow record to be ranked on this graphic

Current Streamflow Conditions

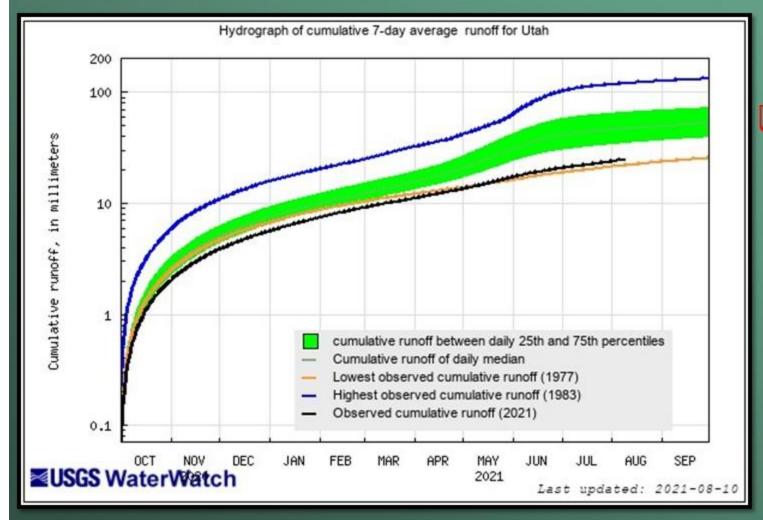


- Real-time streamflow compared to historical streamflow for the day of the year
- Sites must
 have at least
 30 years of
 record to be
 included in
 this graphic



	Expl	anation	- Perce	ntile cla	asses		
Low	<10	10-24	25-75	76-90	>90	High	No Data
	Much below normal	Below normal	Normal	Above normal	Much above normal		

Cumulative Streamflow

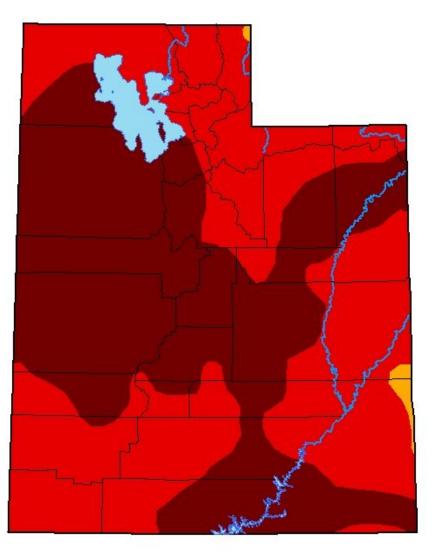


Cumulative
7-day
average
runoff for
water year
2021 is
near the
lowest on
record



U.S. Drought Monitor Utah

August 3, 2021 Released Thursday, Aug. 5, 2021) Valid 8 a.m. EDT



Intensity:

None

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

D3 Extreme Drought D4 Exceptional Drought

The Drought Monitor focuses on broad-so conditions. Local conditions may vary. Fo information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.asp:

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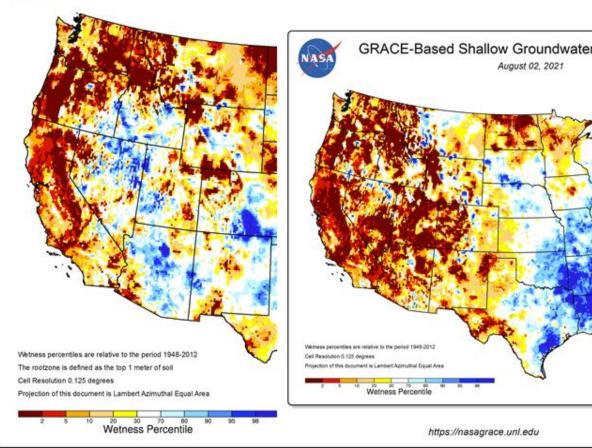


droughtmonitor.unl.edu



GRACE-Based Root Zone Soil Moisture Drought Indicator

August 02, 2021



https://nasagrace.unl.edu

August 02, 2021